



Substitute for Form 1449A/PTO (Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/648,956
Filing Date	08/27/2003
First Named Inventor:	Rajiv Ramaswami
Group Art Unit	2855 2883
Examiner Name	Unassigned Healy
Attorney Docket Number	3239P081D2

Sheet 1 of 9

U.S. PATENT DOCUMENTS

Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Issue/ Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number Code ²	Kind (If known)			CLASS	SUB CLASS
SWH		3,651,392		Frisch, et al.	3/21/1972	318	561
SWH		4,365,863		Broussaud	12/28/1982	385	18X
SWH		4,369,523		Seki, et al.	1/18/1983	455	601
SWH		4,437,190		Rozenwaig, et al.	3/13/1984	455	600
SWH		4,470,154		Yano	9/4/1984	455	607
SWH		4,519,670		Spinner, et al.	5/28/1985	350	96.15
SWH		4,530,566		Smith, et al.	7/23/1985	350	96.20
SWH		4,563,774		Gloge	1/7/1986	455	607
SWH		4,580,873		Levinson	4/8/1986	385	17X
SWH		4,612,670		Henderson	5/16/1986	455	607
SWH		4,634,239		Buhrer	10/6/1987	350	486
SWH		4,797,879		Habbab, et al.	1/10/1989	370	3
SWH		4,817,014		Schneider, et al.	3/28/1989	364	728.03
SWH		4,843,382		Oda, et al.	6/27/1989	455	601X
SWH		4,856,863		Sampsel, et al.	8/15/1989	385	18X
SWH		4,859,012		Chon	8/22/1989	385	18X
SWH		4,886,335		Yanagawa, et al.	12/12/1989	385	18X
SWH		4,897,830		Hill, et al.	1/30/1990	370	4
SWH		4,903,225		Brost	2/20/1990	375	96
SWH		4,982,446		Lord, et al.	1/1/1991	455	600

FOREIGN PATENT DOCUMENTS

Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		T ^o
		Office ³	Number ⁴	Kind Code ⁵ (If known)			CLASS	SUB CLASS	
SWH		WO	86/04205		PCT	07/17/86	H04Q	11/02	
SWH		WO	86/05649		PCT	09/25/86	H04Q	11/02	
SWH		WO	90/14734		PCT	11/29/90	H04N	7/22	
SWH		WO	91/01603		PCT	02/07/91	H04J	14/08	
SWH		WO	95/19689		PCT	07/20/95	H04Q	11/00	
SWH		EP	0 674 457	A2	Fujitsu	09/27/95	385	24X	
SWH		EP	0 721 275	A2	EPO	12/28/95	H04M	3/36	

Examiner Signature

B. Healy

Date Considered

12/20/04

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				First Named Inventor:	Rajiv Ramaswami
				Group Art Unit	2855-2883
				Examiner Name	Unassigned Healy
Sheet	2	of	9	Attorney Docket Number	3239P081D2

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BWT		4,984,238		Watanabe, et al.	1/8/1991	370 105.1
BWT		5,035,482		ten Berge, et al.	7/30/1991	385 96.20
BWT		5,037,173		Sampsel, et al.	8/6/1991	385 17
BWT		5,157,652		Walker	10/20/1992	370 17
BWT		5,216,729		Berger, et al.	6/1/1993	385 31
BWT		5,253,274		Janniello, et al.	10/12/1993	375 12.1
BWT		5,260,819		Hadifotiou, et al.	11/9/1993	359 10
BWT		5,272,556		Faulkner, et al.	12/21/1993	359 12.5
BWT		5,299,044		Mosch, et al.	3/29/1994	359 11.0
BWT		5,349,550		Gage	9/20/1994	364 729.03
BWT		5,355,238		Kight, et al.	10/11/1994	359 13.5
BWT		5,359,683		Pan	10/25/1994	385 22
BWT		5,440,654		Lambert, Jr.	8/8/1995	385 17
BWT		5,477,364		Pearson	12/19/1995	359 139
BWT		5,485,300		Daley	1/16/1996	359 18.0
BWT		5,487,120		Choy, et al.	1/23/1996	385 24
BWT		5,488,862		Neukermans, et al.	2/6/1996	73 501.02
BWT		5,515,361		Li, et al.	5/7/1996	370 15
BWT		5,521,732		Nishio	5/28/1996	359 12.0
BWT		5,521,734		Frigo	5/28/1996	359 15.2

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BWT		EP	0 752 794	A2	EPO	01/08/97	H040 11/00	
BWT		EP	0 759 681	A2	EPO	02/26/97	385 17.5	
BWT		EP	0 809 384	A2	EPO	05/20/97	H040 29/14	
BWT		WO	97/24822		PCT	07/10/97	H040 19.08	
BWT		EP	0 857 000	A2	EPO	01/30/98	H040 11/00	
BWT		EP	0 647 457	A3	Fujitsu	05/13/98	H040 11/00	
BWT		WO	98/54863		PCT	05/27/98	H040 14/02	

Examiner Signature	B. Healy	Date Considered	12/20/04
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BWH		5,524,153		Laor	6/4/1996	385	16
BWH		5,535,293		Buchin	7/9/1996	385	27
BWH		5,539,328		Mirov, et al.	7/23/1996	326	30
BWH		5,570,371		Iga	10/29/1996	370	99
BWH		5,608,735		McCullough, et al.	3/4/1997	370	51.3
BWH		5,629,790		Neukermans, et al.	5/13/1997	359	198
BWH		5,629,919		Hayashi, et al.	5/13/1997	369	112
BWH		5,648,618		Neukermans, et al.	7/15/1997	73	280.76
BWH		5,666,487		Goodman, et al.	9/9/1997	395	326
BWH		5,694,389		Seki, et al.	12/2/1997	375	22
BWH		5,699,463		Yang, et al.	12/16/1997	385	322
BWH		5,719,903		Hiben, et al.	2/17/1998	375	228
BWH		5,727,098		Jacobson	3/10/1998	385	187
BWH		5,729,527		Gerstel, et al.	3/17/1998	370	254
BWH		5,745,274		Fatehi, et al.	4/28/1998	359	228
BWH		5,774,604		McDonald	6/30/1998	385	124
BWH		5,781,537		Ramaswami, et al.	7/14/1998	370	4
BWH		5,793,746		Gerstel, et al.	8/11/1998	370	
BWH		5,801,863		Fatehi, et al.	9/1/1998	359	
BWH		5,825,877		Dan, et al.	10/20/1998	380	

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BWH		EP	0 849 906	A2	Fujitsu	06/24/98	385 24X	
BWH		EP	0 898 440	A2	EPO	02/24/99	385 24X	
BWH		GB	2347570	A	United Kingdom	03/03/99	1040 14/02	
BWH		WO	99/13656		PCT	03/18/99	1040 3/52	
BWH		WO	99/18751		PCT	04/15/99	385 24X	
BWH		EP	0 910 138	A1	EPO	04/21/99	385 24X	
BWH		EP	0 932 069	A1	EPO	07/28/99	602F 1/09	

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Sheet	4	of	9	Attorney Docket Number	3239P081D2

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BW		5,825,949		Choy, et al.	10/20/1998	385 24
BW		5,828,476		Bonebright, et al.	10/27/1998	359 152
BW		5,864,643		Pan	1/26/1999	385 33
BW		5,867,289		Gerstel, et al.	2/2/1999	359 110
BW		5,892,606		Fatehi, et al.	4/6/1999	359 177
BW		5,900,968		Srivastava, et al.	5/4/1999	359 341
BW		5,903,687		Young, et al.	5/11/1999	385 17
BW		5,915,063		Colbourne, et al.	6/22/1999	385 140
BW		5,942,937		Bell	8/24/1999	329 303
BW		5,960,132		Lin	9/28/1999	385 18
BW		5,963,350		Hill	10/5/1999	385 24X
BW		5,970,201		Anthony, et al.	10/19/1999	385 140
BW		5,978,113		Kight	11/2/1999	359 110
BW		6,002,818		Fatehi, et al.	12/14/1999	385 17
BW		6,002,818		Fatehi, et al.	12/14/1999	
BW		6,005,993		MacDonald	12/21/1999	385 16
BW		6,005,993		MacDonald	12/21/1999	
BW		6,008,915		Zyskind	12/28/1999	359 110
BW		6,009,220		Chan, et al.	12/28/1999	385 24
BW		6,046,833		Sharma, et al.	4/4/2000	359 119

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Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Office ³	Number ⁴	Kind Code ⁵ (If known)				
BW		WO	99/40738		Tol Johannes Jacobus Gerardus	08/12/99	385 24X	
BW		EP	0 938 244	A2	Fujitsu	08/25/99	1040 1100	
BW		WO	00/13210		PCT	09/09/99	385 24X	
BW		WO	99/48323		PCT	09/23/99	385 24X	
BW		EP	0 953 854	A1	EPO	11/03/99	385 24X	
BW		WO	99/59272		PCT	11/18/99	385 24X	
BW		WO	99/63374		Laor	12/09/99	385 24X	

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		Number Code ²	Kind (If known)				
BUT		6,047,331		Medard, et al.	4/4/2000	709	239
BUT		6,069,924		Sudo, et al.	5/30/2000	375	330
BUT		6,072,612		Liou, et al.	6/6/2000	359	123
BUT		6,081,361		Adams, et al.	2/27/2000	359	188
BUT		6,097,858		Laor	8/1/2000	385	16
BUT		6,097,859		Solgaard, et al.	8/1/2000	385	17
BUT		6,108,311		Ramaswami, et al.	8/22/2000	370	258
BUT		6,130,876		Chaudhuri	10/10/2000	370	228
BUT		6,147,968		DeMoer, et al.	11/14/2000	370	225
BUT		6,148,124		Aksyuk, et al.	11/14/2000	385	24
BUT		6,160,821		Dolle, et al.	12/12/2000	370	509
BUT		6,188,810	B1	Baney	2/13/2001	370	509
BUT		6,188,814	B1	Bhalla	2/13/2001	385	115
BUT		6,192,172		Fatehi, et al.	2/20/2001	359	124
BUT		6,195,402	B1	Hiramatsu	2/27/2001	375	363
BUT		6,198,571	B1	Yank	3/6/2001	359	33
BUT		6,207,949	B1	Jacket	3/27/2001	359	33
BUT		6,222,954	B1	Riza	4/24/2001	385	18
BUT		6,252,689	B1	Sharp	6/26/2001	359	168
BUT		6,253,001	B1	Hoer	6/26/2001	385	17

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BUT		WO	99/63531		Laor	12/09/99	385	18X	
BUT		WO	99/66354		Laor	12/23/99	385	18X	
BUT		WO	99/67666		Laor	12/29/99	385	18X	
BUT		WO	00/04671		Laor	01/27/00	385	18X	
BUT		WO	00/13210	A2	Xros, Inc.	03/09/00	385	18X	
BUT		WO	00/13210	A3	Xros, Inc.	03/09/00	385	18X	
BUT		WO	00/20899		PCT	04/13/00	385	18X	

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OTHER ART – NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
BW		A. HIMENO, R. NAGASE, T. ITO, K.KATO AND M. OKUNO; Photonic Inter-Module Connector Using 8x8 Optical Switches for Near-Future Electronic Switching Systems; IEICE Transactions on Communications; E77-B (1994) February, No. 2, Tokyo, JP	
BW		LIN, L.Y. et al.; Micro-Electro-Mechanical Systems (MEMS) for WDM Optical-Crossconnect Networks, Milcom 1999; IEEE Military Communications Conf Proceedings; Atlantic City, NJ 10/31-11/3/99; pgs. 954-957.	
BW		S. OKAMOTO, et al.; Optical Path Cross-Connect Node Architectures for Photonic Transport Network, Journal of Lightwave Technology, Vol. 14, No. 6, June 1996, pgs. 1410-1422.	
BW		GUSTAFFSON, K. & HOK, B., A Batch-Processed Optical Scanner Proc. 12th Nordic Semiconductor Meeting, Jevnaker (Oslo: Center for Industrial Research) pp. 282-285, 1996.	
BW		GUSTAFFSON, K. & HOK, B., Fiberoptic Switching and Multiplexing with a Micromechanical Scanning Mirror, Digest of Technical Papers, 4th Int. Conf. On Solid State Sensors and Actuators (Tokyo: Institute of Electrical Engineers of Japan) pp. 212-215, 1985.	
BW		GUSTAFFSON, K. & HOK, B., A Silicon Light Modulator, Journal of Physics E. Scientific Instruments 21, pp. 608, 1998.	
BW		LIN L.Y., et al., Free-Space Micromachined Optical-Switching Technologies and Architectures, OFC/100C '00, February 21-26, 1999.	
BW		LAOR, H., et al., Performance of a 576x576 Optical Cross Connect, NFOEC-99.	
BW		Types and Characteristics of SDH Network Protection Architectures; ITU-T Recommendation G.841 10/98.	
BW		RAJIV RAMASWAMI & KUMAR SIVARAJAN, Optical Networks: A Practical Perspective, Morgan Kaufmann Pub. 1998, pp 152-161.	
BW		RAJIV RAMASWAMI & KUMAR SIVARAJAN, Optical Networks: A Practical Perspective, Morgan Kaufmann Pub. 1998, pp 423-462.	
BW		CHAD WHITE, The Photonic Switch Completes the Much-Vaunted All-Optical Network, Technology Investor, October 2000, pp 28-31.	

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				Examiner Name	Unassigned Healy
Sheet	9	of	9	Attorney Docket Number	3239P081D2

OTHER ART – NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
BWT		BISCHOFF, et al., Operation and Maintenance for an All-Optical Transport Network, IEEE Communications, Magazine, pp 136-142, 11/1996.	
BWT		LIN, et al., Free-Space Micromachined Optical Switches with Submillisecond Switching Time for Large-Scale Optical Crossconnects, pp 525-527, 04/1998.	
BWT		KAUFMAN, et al., The Optical Internet, A New Network Architecture, pp 1-13.	
BWT		SIMON, et al., All Optical Regeneration, IEEE, pp 53-54.	
BWT		PETER WONG & MARK YIN, An Economic Analysis for Core Optical Transport Networks.	
BWT		CRAIG LABOVITZ, ABHA AHUJA, FARNAM JAHANAIAI, Experimental Study of Internet Stability and Backbone Failures, IEEE, pp 278-285, 1999.	

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